Configurable Decora® Wired Keypad Installation Guide

Supported Model

- C4-KCB-XX Wired Configurable Keypad

Introduction

The Control4® Configurable Decora Wired Keypad is intended for use in a Control4 system. It installs in a standard US wallbox. Communication to the Control4 system is via RS-485 protocol and wiring. For RS-485 wiring topologies, refer to the document *Keypad Bus Wiring Recommendations*.

Box Contents

- Configurable Decora Wired Keypad
- Keycap Button Kit
- Pluggable Terminal Block
- Warranty Card

Specifications

The specifications are described below.

Model Number	C4-KCB-XX
Power Requirements	48VDC
Power Consumption	Maximum 24VDC 0.9W Minimum 24VDC 0.5W Maximum 48VDC 1.2W Minimum 48VDC 0.7W
Environmental	
Operational Temperature	32˚F - 104˚F (0˚C - 40˚C)
Humidity	5% to 95% non-condensing
Storage	-4˚F - 158˚F (-20˚C - 70˚C)
Miscellaneous	
Control Communications	RS-485
Weight	0.1 lb. (0.045 kg)
Shipping Weight	0.3 lb. (0.14 kg)

Warnings and Considerations

✓ IMPORTANT! Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Troubleshooting."

✓ IMPORTANT! Do NOT use a power screwdriver to install this device. If you do, you may overtighten the screws and strip them. Also, overtightening the screws may interfere with proper button operation.

✓ IMPORTANT! This is an electronic device with intricate components. Handle and install with care!

✓ CAUTION! Do not exceed the number of keypads per power supply as indicated in Figures 2, 3, and 4 on the next page. Exceeding the maximum number of keypads will result in overheating the wires and/or failed devices.
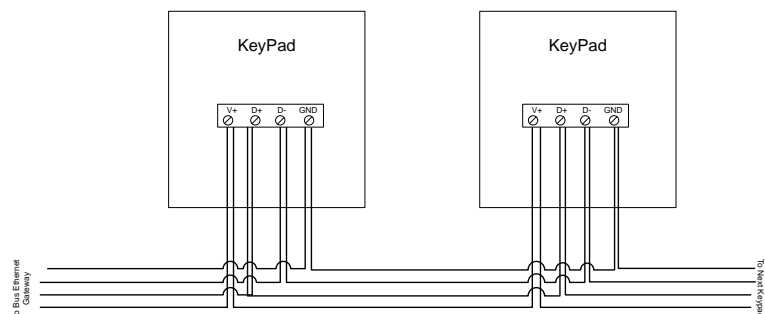
Installation Instructions

⚠ CAUTION! When wiring the keypad, make sure that either:
- The Bus Power Supply is **not** powered on.
  - OR -
- The pluggable connector is disconnected from the Bus Power Supply.

1   Prepare the CAT5 cable for termination by stripping the outer sheath and individual wires, then wire into the pluggable terminal block by using the recommended wiring shown below.

Terminal	Wire	Color
GND	3 × Wire	Orange White + Green White + Brown White
D+	1 × Wire	Blue
D-	1 × Wire	Blue White
V+	3 × Wire	Orange + Green + Brown

2   Wire the keypads as shown below.

Figure 1.

💡 TIP: If you are using a Control4 push-on (screwless) faceplate in a multi-gang installation, attach the black faceplate subplate to all of the devices that will be installed into the wallbox **before** attaching the devices to the wallbox. This will help ensure that all devices are properly aligned and on the same plane after installation.

3   Fit the wires back into the wallbox.

4   Align the keypad to the wallbox (the model number label should be at the bottom), then fasten it with the included screws.

✏ IMPORTANT! Tighten the screws until the back side of the yoke plate is even with the wall surface, but no further. Overtightening can warp the keypad and cause it to malfunction.

5   Install the top actuator bar, bottom sensor bar, and buttons following the instructions in the *Keypad Buttons Installation Guide*.

6   Install the Control4 faceplate following the instructions in the *Faceplate Installation Guide* or attach a standard decora-style faceplate.

7   Ensure that the Bus Power Supply is installed correctly and powered on. For instructions, see the *Bus Power Supply Installation Guide*.

Operation and Configuration

On initial power up, all status LEDs on the keypad will illuminate green, indicating that the device has power. Until the keypad has been configured into a Control4 system, it will not control any loads. To set up this keypad for use with a Control4 system, refer to the *Composer Pro User Guide*.

Button Tap Sequences

The button tap sequences are defined in the table below. Button tap sequences that require a single (1) button should use the top-most button installed on the keypad. Button tap sequences requiring two (2) buttons should use the top-most and bottom-most (or bottom-left) buttons installed on the keypad.

Function	Button Sequence
Identify	1
Reboot	15
Factory Reset	9-4-9

Troubleshooting

If the LEDs do not light up indicating that the keypad is receiving power::

- Ensure the Bus Power Supply is powered on.
- Ensure the Bus Ethernet Gateway is powered on and connected.
- Check for proper wiring (see "Installation Instructions" above).
- For help on the installation or operation of this product, email or call the Control4 Technical Support Center. Provide your exact model number. Contact support@control4.com or see the website www.control4.com

Care and Cleaning

- Do NOT paint the keypad or its wall plate.
- Do NOT use any chemical cleaners to clean the keypad.
- Clean surface of the keypad with a soft damp cloth as needed.

Regulatory/Safety Information

To review Regulatory information for your particular Control4 products, see the information located on the Control4 website at: http://www.control4.com/regulatory/.

Patent Information

Applicable patents are available at http://www.control4.com/legal/patents.

Warranty

For complete warranty information, including details on consumer legal rights as well as warranty exclusions, review the Warranty card or visit www.control4.com/warranty.

About this Document

Part Number: 200-00346, Rev. A 5/2/2013

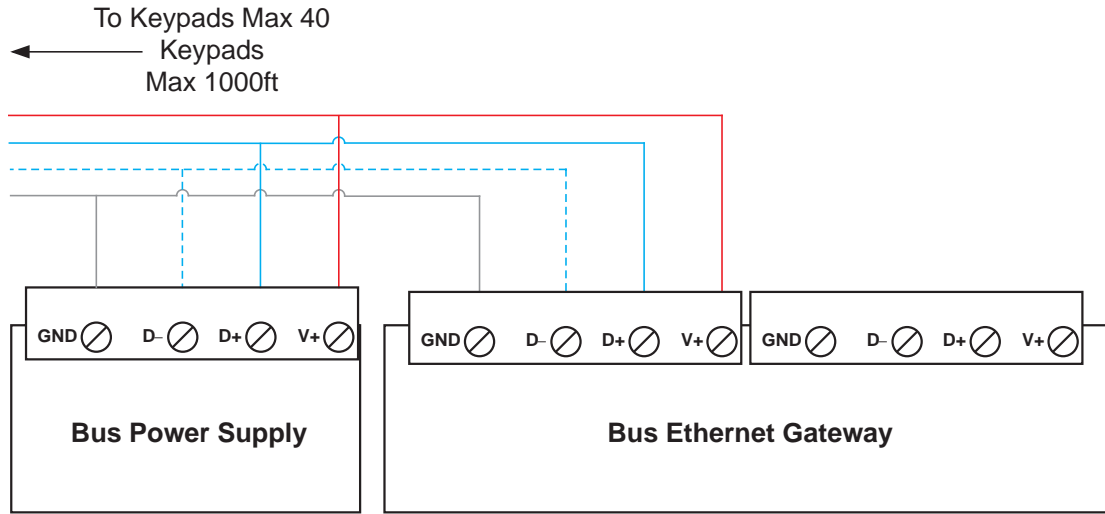### Figure 2. Single Chain - Gateway and Power Supply at the Beginning of the Chain

To Keypads Max 40
Keypads
Max 1000ft

| GND | D– | D+ | V+ |

Bus Power Supply

| GND | D– | D+ | V+ | | GND | D– | D+ | V+ |

Bus Ethernet Gateway

Figure 3. Two Chains - Gateway and Power Supply Centrally Located Between Chains

To Keypads Max 25
Keypads
Max 1000ft

To Keypads Max 25
Keypads
Max 1000ft

| GND | D– | D+ | V+ |

Bus Power Supply

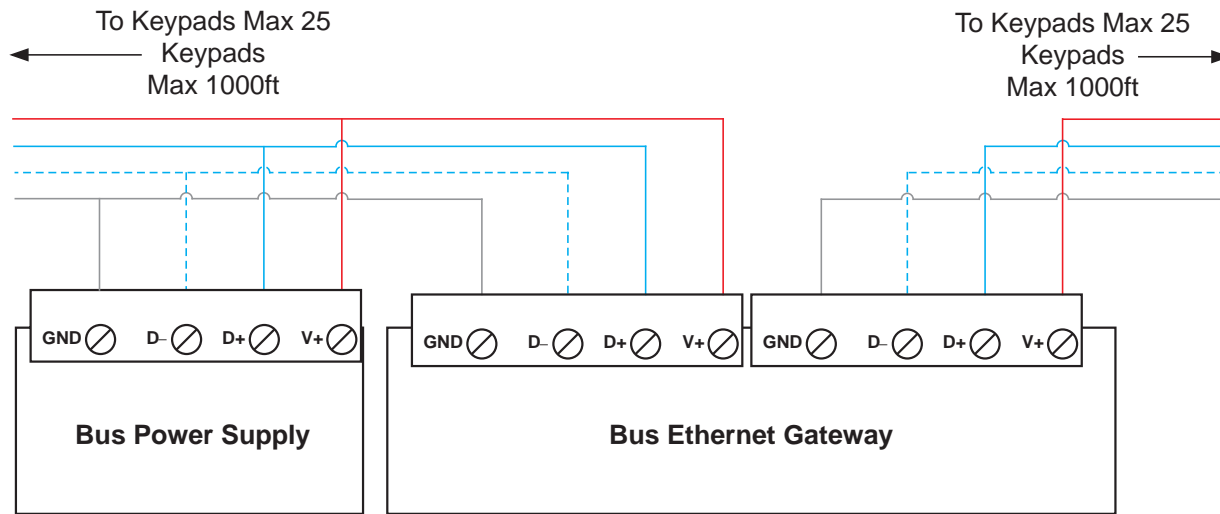| GND | D– | D+ | V+ | | GND | D– | D+ | V+ |

Bus Ethernet Gateway

Figure 4. Two Chains - Gateway and Two Power Supplies Centrally Located Between Chains

To Keypads Max 40
Keypads
Max 1000ft

To Keypads Max 40
Keypads
Max 1000ft

| GND | D– | D+ | V+ |

Bus Power Supply

| GND | D– | D+ | V+ | | GND | D– | D+ | V+ |

Bus Ethernet Gateway

| GND | D– | D+ | V+ |

Bus Power Supply